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DAC

Atty. Dkt. No. 049411-0340

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Igor BARGATIN et al.  
Title: DETECTION OF RESONATOR MOTION  
USING PIEZORESISTIVE SIGNAL  
DOWNMIXING  
Appl. No.: 10/590,485  
Int'l Filing Date: 2/24/2005  
371(c) Date:  
Examiner: Unassigned  
Art Unit: Unassigned  
Conf. No.: 9701

**RENEWED PETITION UNDER 37 C.F.R. § 1.47(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Petition Decision mailed on January 11, 2008, in the above-identified application, dismissing the previously filed petition, favorable reconsideration is requested in view of the following and attached documents.

The Decision stated that applicants did not meet their burden of showing that Darron K. Young cannot be located because no evidence showing an attempt to locate Mr. Young using the internet and telephone directory search was presented. Internet and telephone directory searches were indeed performed prior to filing the Petition on November 26, 2007, however, evidence of these searches was not included in the Petition because no satisfactory results were achieved. The previous attempts, and additional attempts made since receiving the Decision, are documented in the attached statement of Karen Walker in support of the present renewed petition.

The Decision also stated that the declaration signed by Jessica Arlett contains a non-initialed, non-dated alteration. 37 CFR 1.52(c)(1) states, in part, that "Any inderlineation, erasure, cancellation or other alteration.....should be dated and initialed or signed by the applicant on the same sheet of paper." It is respectfully submitted that Ms. Arlett made the alteration to the Declaration, correcting her residence to South Pasadena, California, and then signed and dated the Declaration in the spaces provided immediately below. Therefore, the requirement for an alteration to be signed on the same sheet of paper has been met, and the objection to Ms. Arlett's signed Declaration should be withdrawn.

Finally, a signed return receipt of the registered letter (and enclosures) mailed by registered mail to Mr. Young's last known address of 430 Gerona Avenue, San Gabriel, CA, 91775, on November 16, 2007, and discussed in item f. of the previous petition (Exhibit E of previous petition), is attached hereto as Exhibit 1. The receipt is signed, however, the signature is not clearly legible, so it is unclear who signed the return receipt.

In view of the evidence submitted in the previous petition and the present renewed petition, it is clear that Mr. Young can not be reached, or alternatively, that if the registered letter and enclosures were received by Mr. Young, that he is refusing to sign the Declaration for the present application.

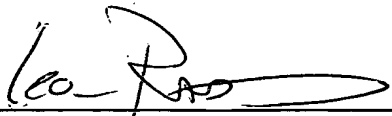
In view of the originally filed Petition and supporting documents filed therewith, and the present renewed petition and supporting documents, it is respectfully requested that the present application be granted status under 37 C.F.R. § 1.47(a) and placed in line for examination.

If there are any questions regarding the above, please contact the undersigned.

Respectfully submitted,

Date January 18, 2008

FOLEY & LARDNER LLP  
Customer Number: 22428  
Telephone: (202) 945-6090  
Facsimile: (202) 672-5399

By  \_\_\_\_\_

Leon Radomsky  
Attorney for Applicant  
Registration No. 43,445

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Darren K. Young  
 430 Gerena Ave.  
 San Gabriel, CA  
 91775

## 2. Article Number

(Transfer from service label)

7005 0390 0005 6265 3823

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

## A. Signature

X

☐ Agent☐ Addressee

## B. Received by (Printed Name)

## C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes  
If YES, enter delivery address below: ☐ No

## 3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes



Atty. Dkt. No. 049411-0340

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Igor Bargatin et al.  
Title: DETECTION OF RESONATOR MOTION  
USING PIEZORESISTIVE SIGNAL  
DOWNMIXING  
Appl. No.: 10/590,485  
International Filing Date: 2/24/2005  
371(c) Date:  
Examiner: Unassigned  
Art Unit: Unassigned  
Conf. No.: 9701

**STATEMENT OF KAREN WALKER IN SUPPORT OF  
RENEWED PETITION UNDER 37 CFR 1.47(A)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Karen A. Walker, hereby declare the following:

- 1) I am a legal assistant employed by Foley & Lardner LLP, 3000 K Street, NW, Suite 500, Washington, DC 20007. I provide support to Leon Radomsky, the attorney of record in the above-identified application.
- 2) On November 20, 2007, I performed an internet search attempting to locate Darron K. Young, an inventor of the above-identified U.S. Patent Application. I searched [www.zabasearch.com](http://www.zabasearch.com) for Darron K. Young in all of the United States. Of the three results for Darron K. Young, two included telephone numbers, (323) 255-5508 and (323) 255-8283. On November 20, 2007, I called (323)255-5508 and the number rang with no answer. On November 20, 2007, I called (323) 255-8283 and left a message

on an answering machine requesting that Darron Young return my call. I did not print out the results of my internet search on November 20, 2007, as the results were not useful.

- 3) On January 17, 2008, I again searched [www.zabasearch.com](http://www.zabasearch.com) for Darron K. Young in all of the United States (see Exhibit A). On January 17, 2008, I called (323) 255-5508 and the number rang with no answer. On January 17, 2008, I called (323) 255-8283, and the phone was answered by Mr. Sanchez, who told me I had the wrong number.
- 4) On January 17, 2008, I searched [www.whitepages.com](http://www.whitepages.com) for Darron Young (see Exhibit B). The sole result lists Darron Young's last known address of 430 Gerona Avenue, San Gabriel, CA 91775-2938, and no telephone number.
- 5) On January 17, 2008, I google searched Darron K. Young (see Exhibit C). The first result is a PCT Publication listing Darron K. Young as an inventor, with an address care of California Institute of Technology (we know he is no longer with our client, California Institute of Technology). The second result lists Darron K. Young and a link to a page outlining the subject of Session A26 from a conference Mr. Young was involved with in 2000 (see Exhibit D), and lists his association with the Center for Spintronics and Quantum Computation, Quantum Institute, University of California, Santa Barbara. The website for this group does not list Darron K. Young as a current group member (see Exhibit E).
- 6) I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issued thereon.

1-18-2008  
Date

Karen A. Walker  
Karen A. Walker

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Search A Full  
Name:

Darron K. Young

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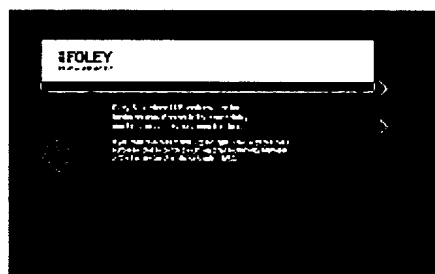
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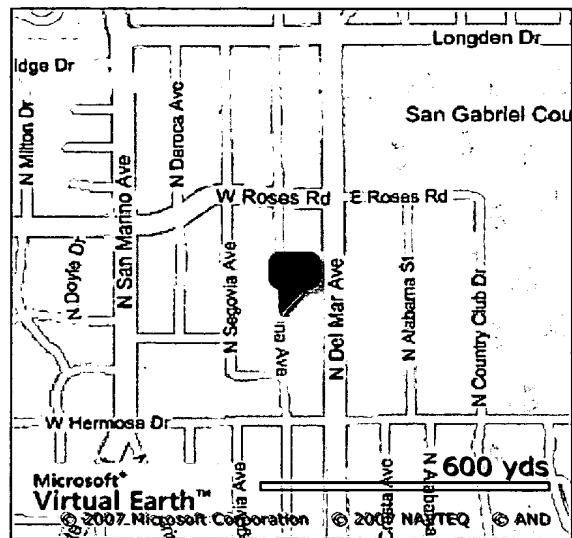
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MySpace profile for **Darron "sumpfnugget" III Snr** with pictures, videos, ... I was rather mocked by the **young** lads for ordering that from Bertus! ...

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**Session A26 - Magnetic Nanostructures and Heterostructures I: Ferromagnetic Semiconductors.**  
*MIXED session, Monday morning, March 20*  
*211A, MCC*


## **[A26.001] Electrical Spin Injection in a Ferromagnetic Semiconductor Heterostructure**

*Darron K. Young (Center for Spintronics and Quantum Computation, Quantum Institute, University of California, Santa Barbara, CA 93106)*

As an alternative to electronic charge, the classical manipulation of electronic spin in semiconductor devices - "spintronics" - is attracting interest due to the possibilities of reading and writing nonvolatile information through magnetism. Electrical spin injection is observed in zero magnetic field from a ferromagnetic semiconductor into a nonmagnetic semiconductor through the fabrication of light-emitting spintronic devices using III-V heterostructures based on GaAs(Y. Ohno, D.K. Young, B. Beschoten, F. Matsukura, H. Ohno, and D.D. Awschalom, *Nature*, in press (1999).). Under forward bias, spin polarized holes from a p-type ferromagnetic semiconductor (Ga,Mn)As(B. Beschoten, P.A. Crowell, I. Malajovich, D.D. Awschalom, F. Matsukura, A. Shen, and H. Ohno, *Phys. Rev. Lett.* 83, 3073-3076 (1999).) and unpolarized electrons from an n-type GaAs substrate are injected into an embedded (In,Ga)As quantum well (QW) separated from the ferromagnetic region by a spacer layer. The hole spin polarization in the QW is directly measured by analyzing the polarization of the emitted electroluminescence (EL). The EL polarization as a function of magnetic field exhibits hysteresis below the ferromagnetic transition temperature of (Ga,Mn)As, with sharp switching fields of  $H \sim 40$  Oe. Despite possible depolarization due to transport through interfaces, as well as valence band mixing in the bulk and QW regions, the EL polarization reveals that the hole spin polarization in the (Ga,Mn)As can be transported across interfaces over distances greater than 200 nm.

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David Awschalom	<a href="mailto:awsch@physics.ucsb.edu">awsch@physics.ucsb.edu</a>	Optical and magnetic interactions in semiconductor quantum structures, spin dynamics and coherence in condensed matter, nanometer-scale magnetism, and quantum information processing in the solid state.
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